Graded Assignment on Serverless Architecture

Table of Contents

[1. EC2 Instance creation 1](#_Toc148653323)

[2. IAM Role for Lambda Function 5](#_Toc148653324)

[3. Creation of Lambda Function 6](#_Toc148653325)

[4. SNS Creation 7](#_Toc148653326)

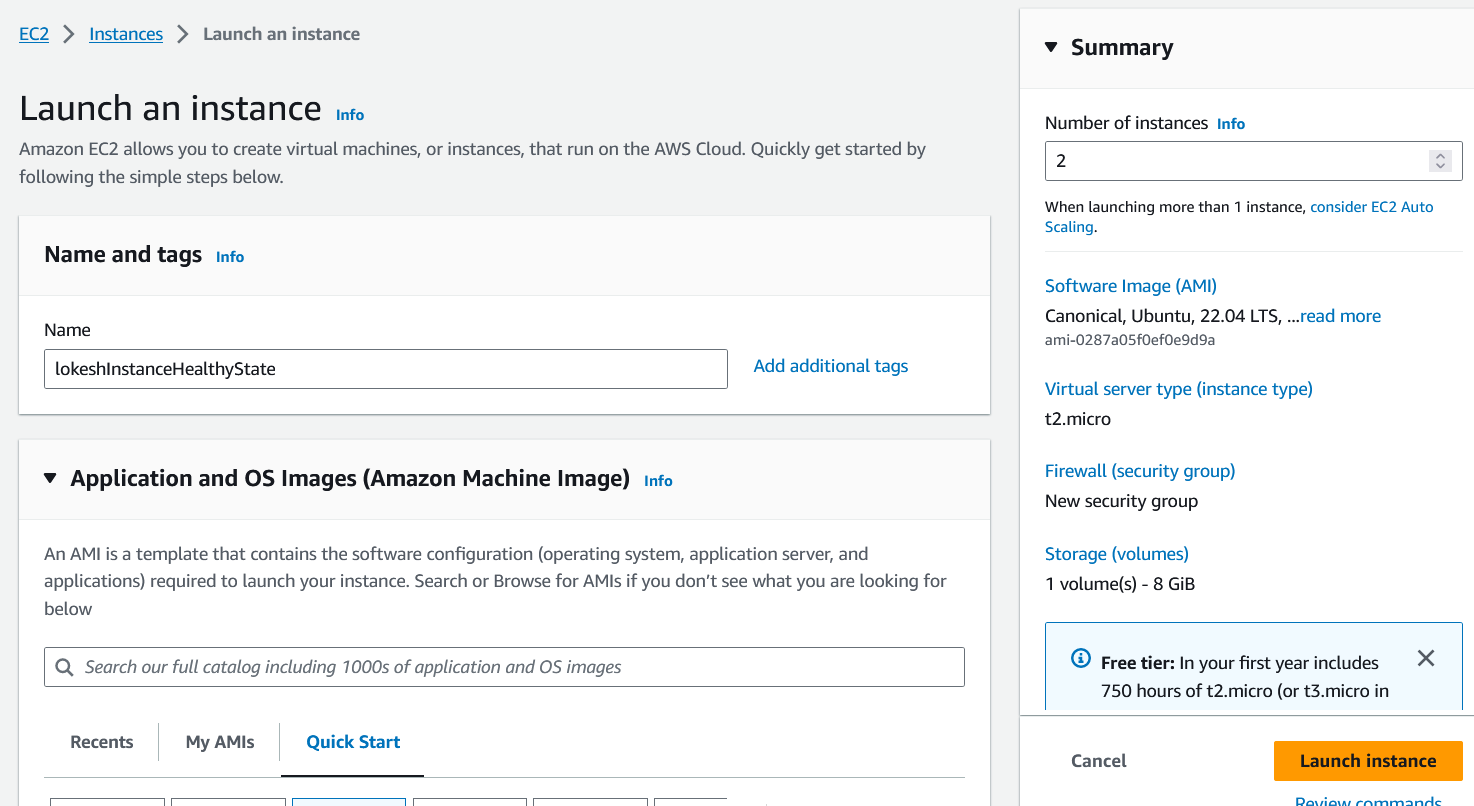
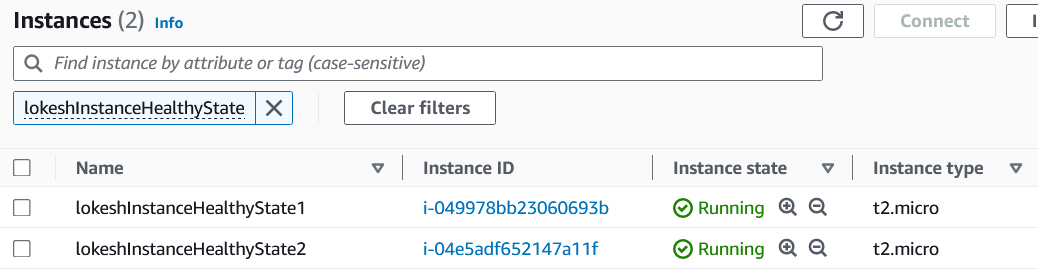
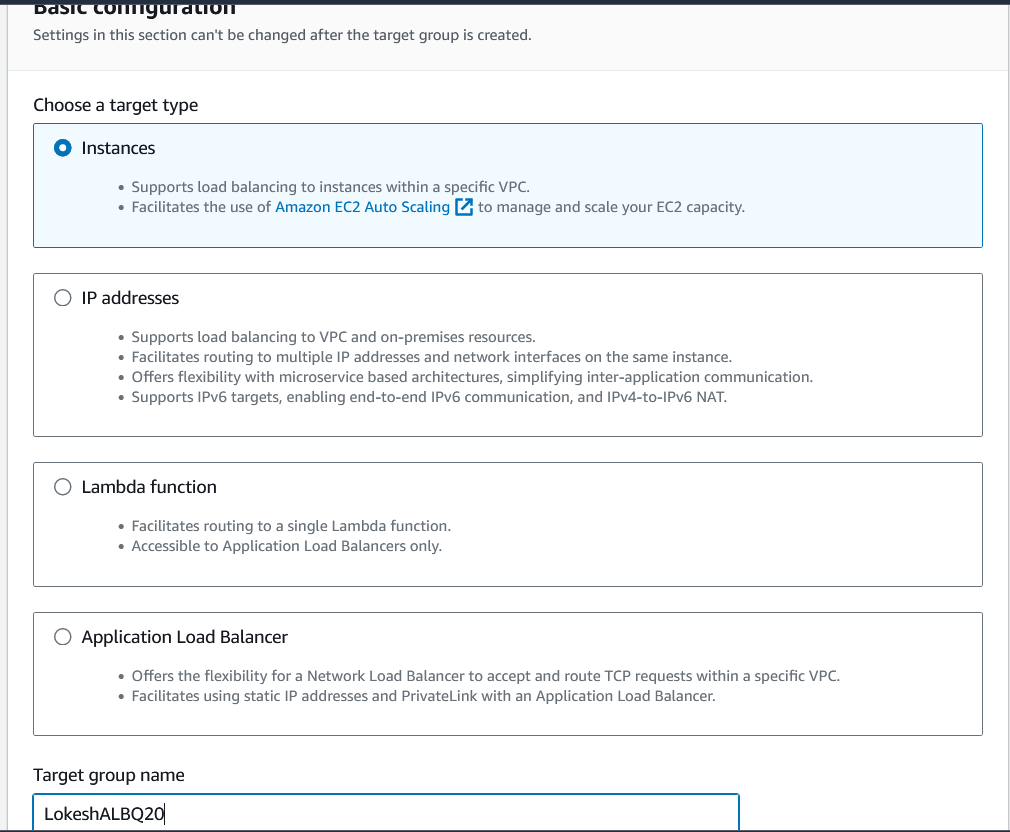
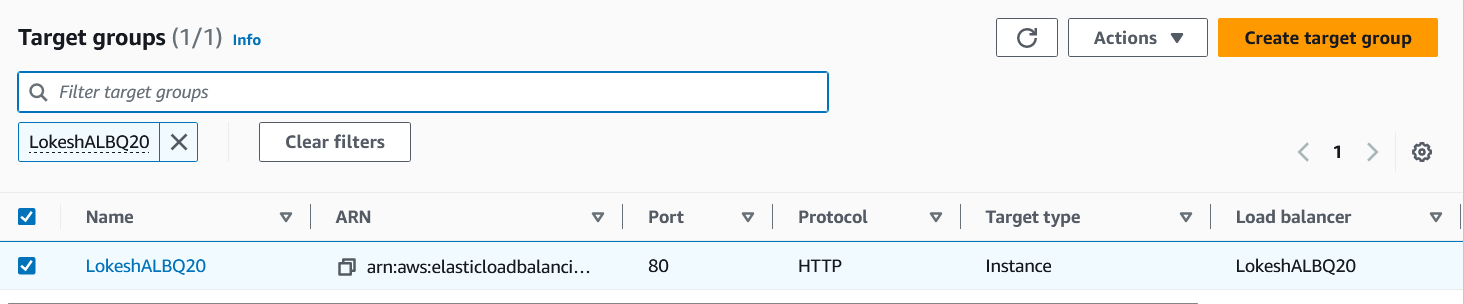
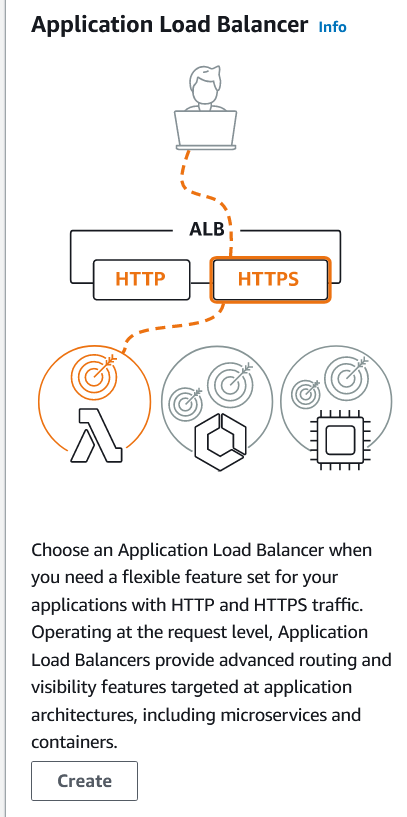
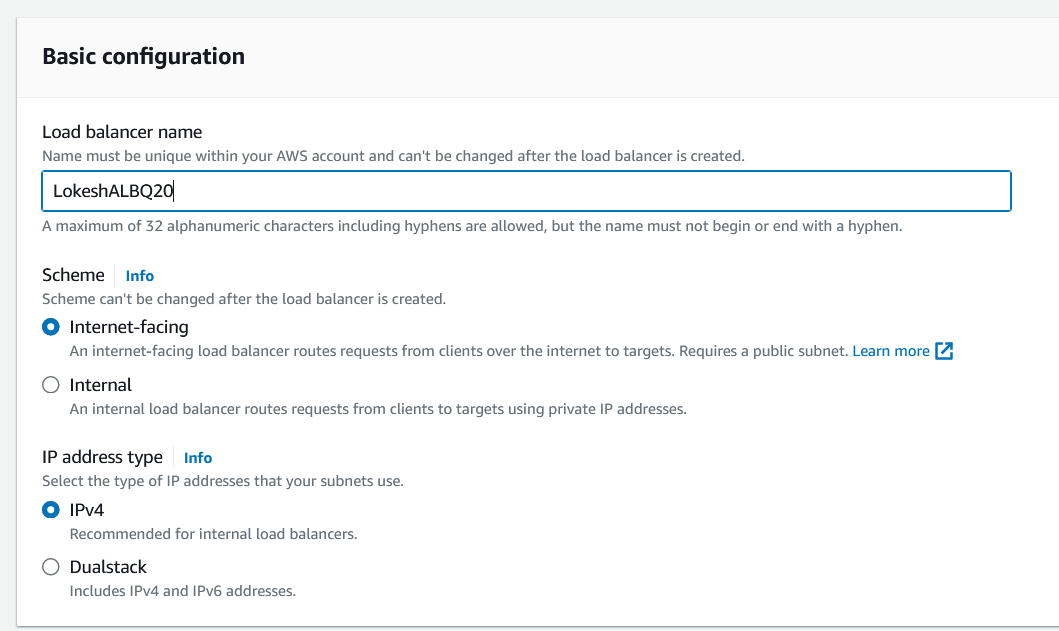
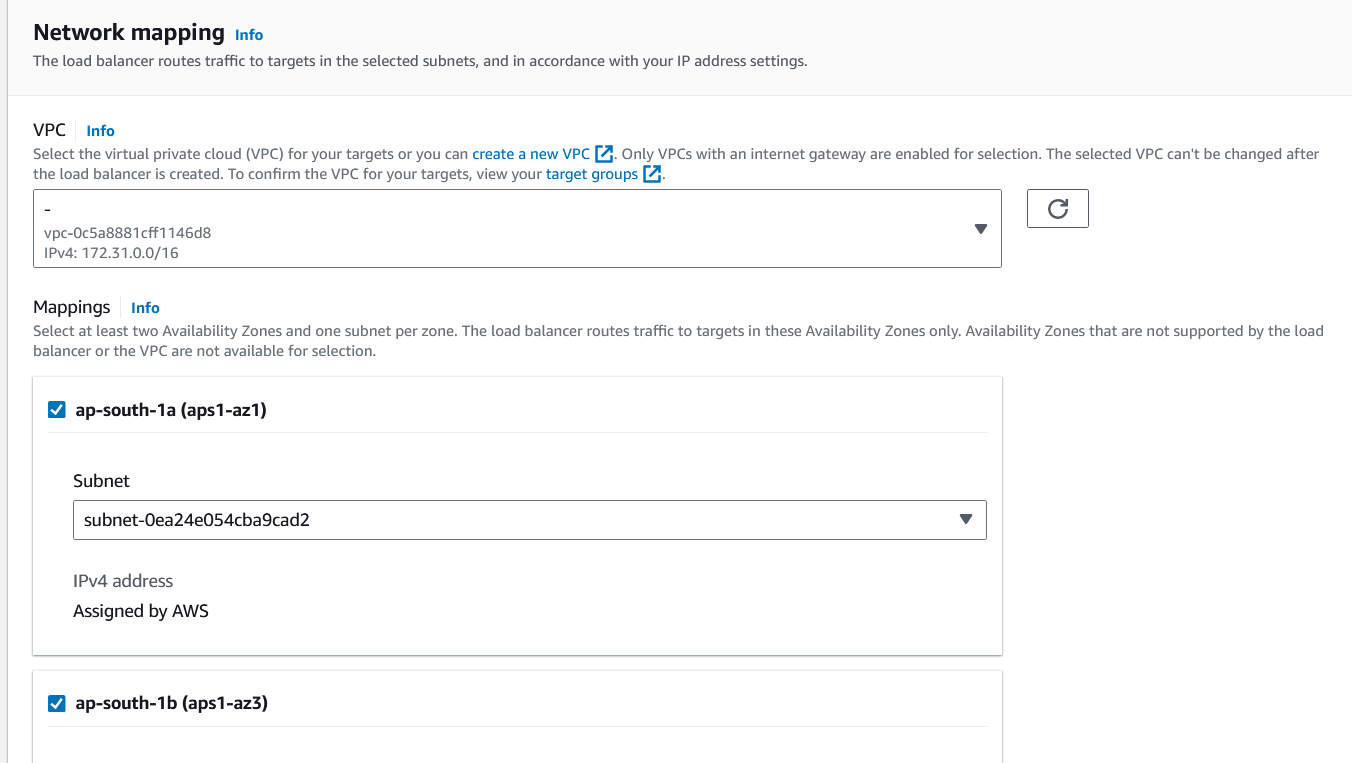
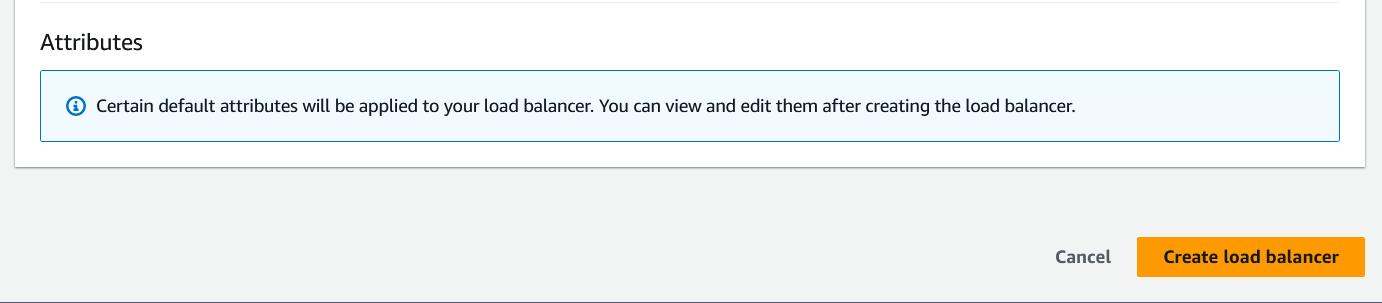
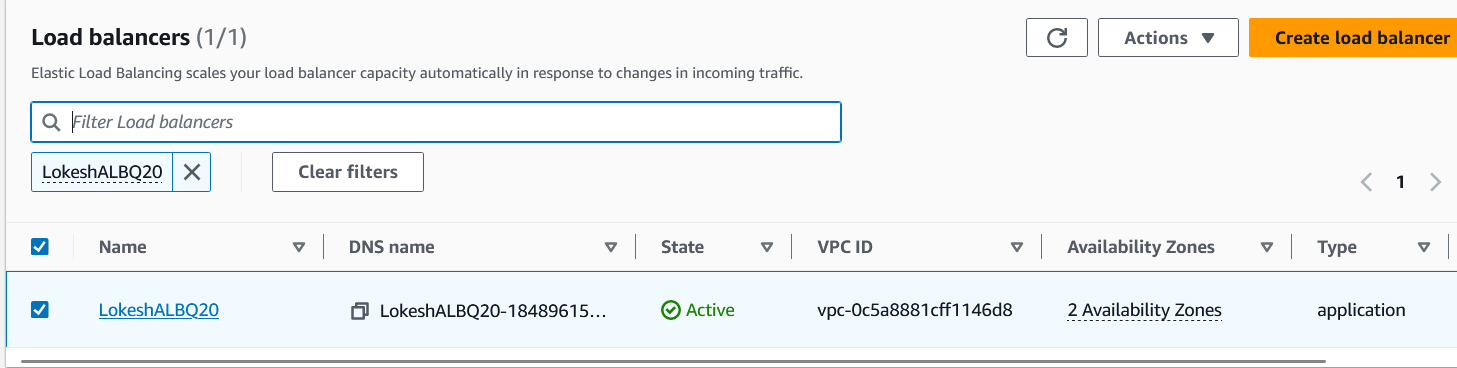
[5. Adding SNS to Lambda as a Trigger 9](#_Toc148653327)

[6. Adding EventBridge (CloudWatch) to Lambda as a Trigger 9](#_Toc148653328)

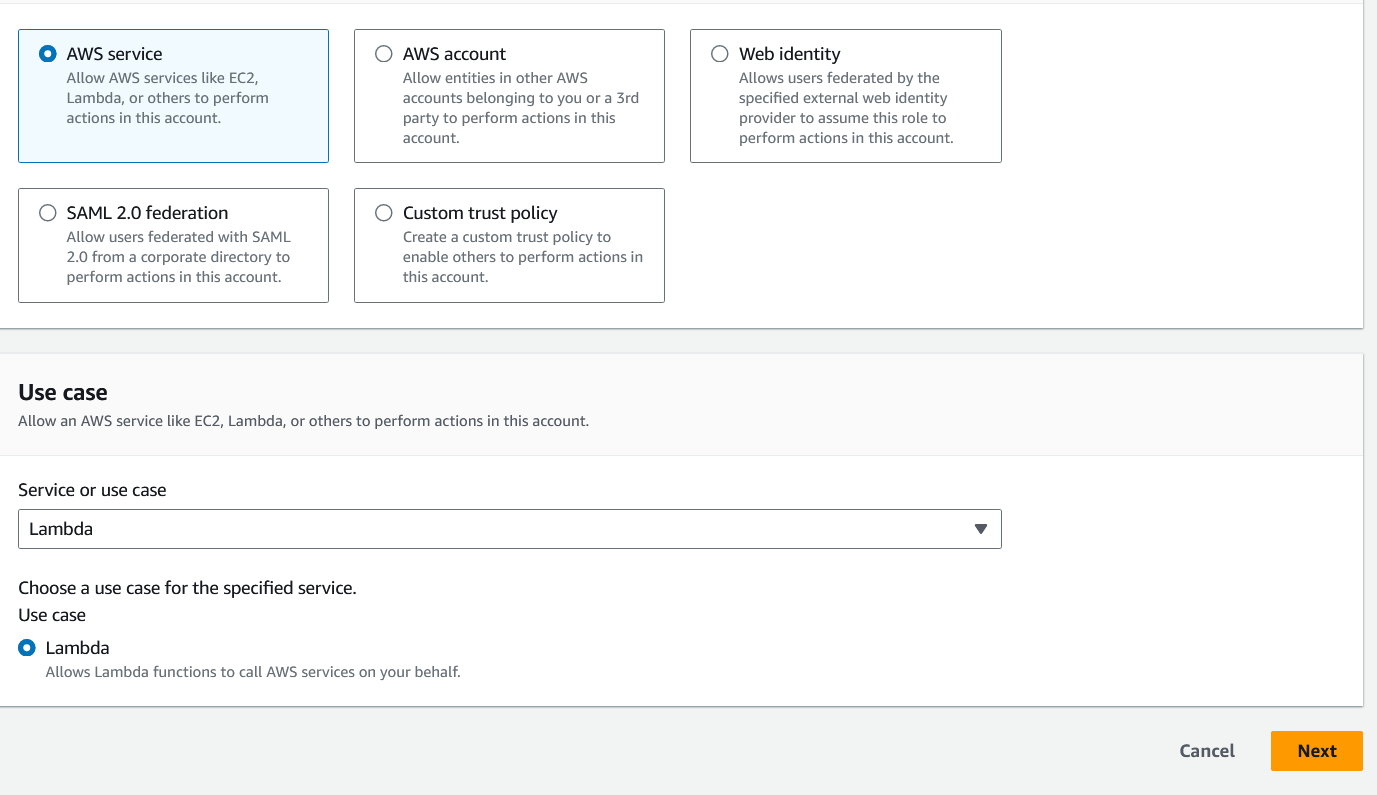
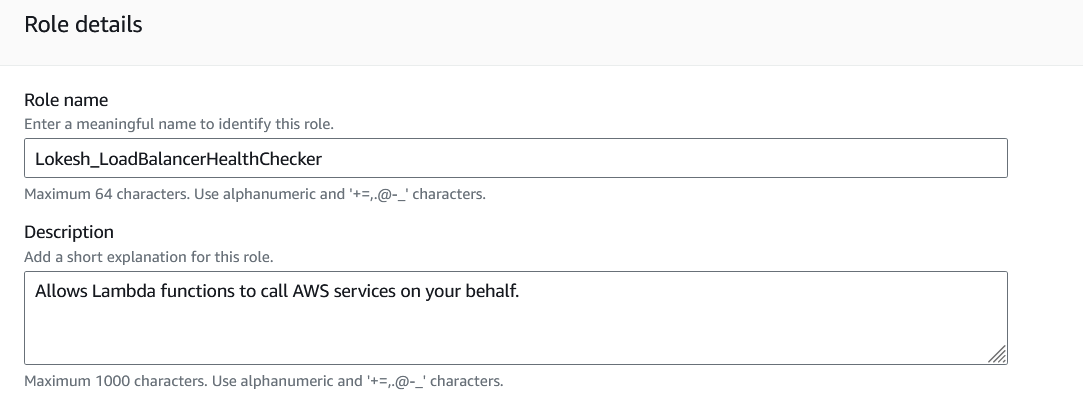
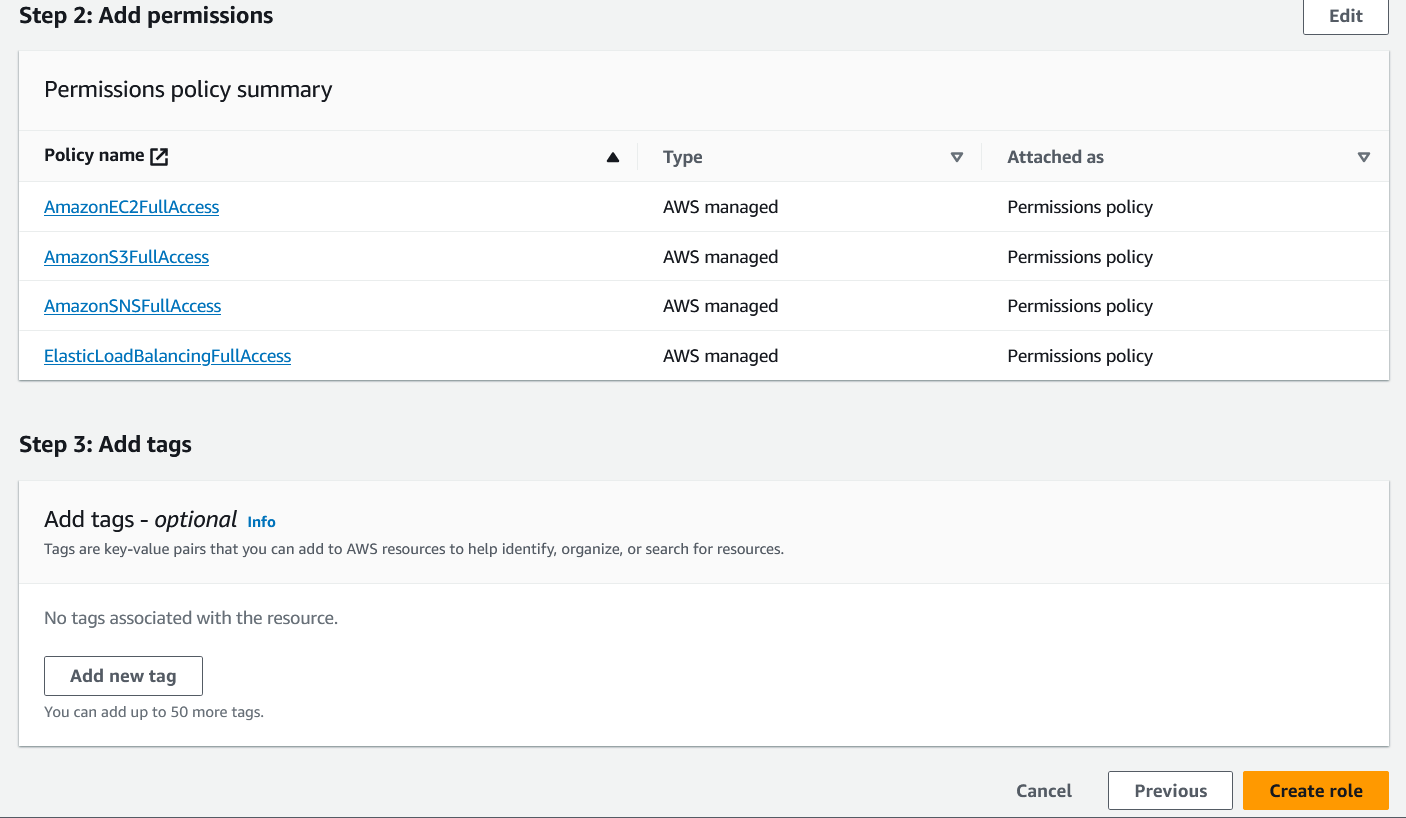
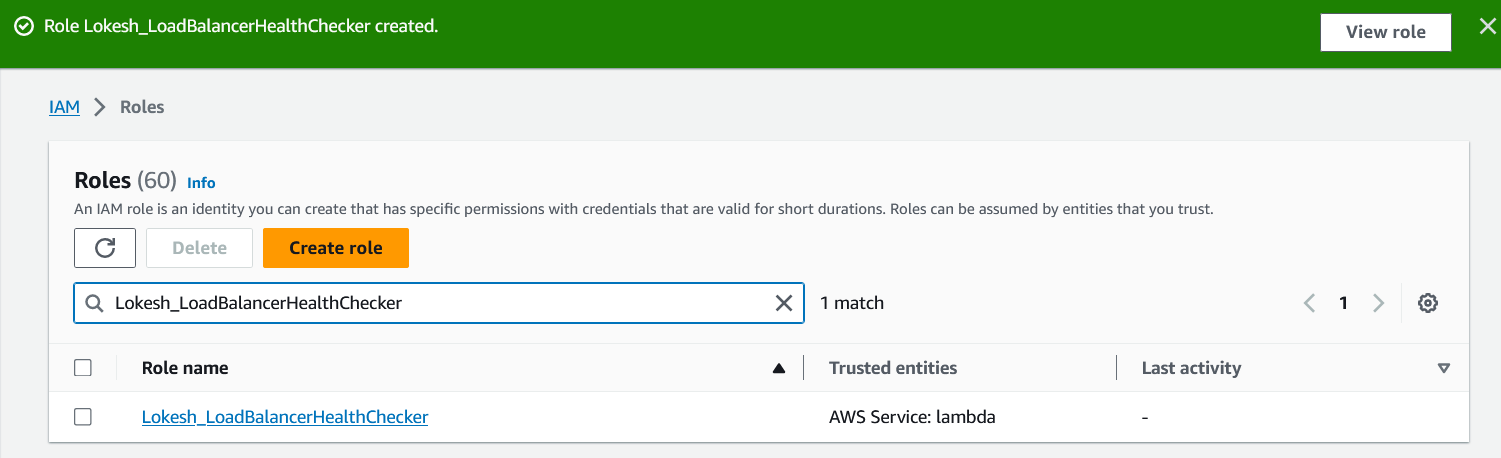
[7. Testing the Code 11](#_Toc148653329)

**Assignment 20: Load Balancer Health Checker**

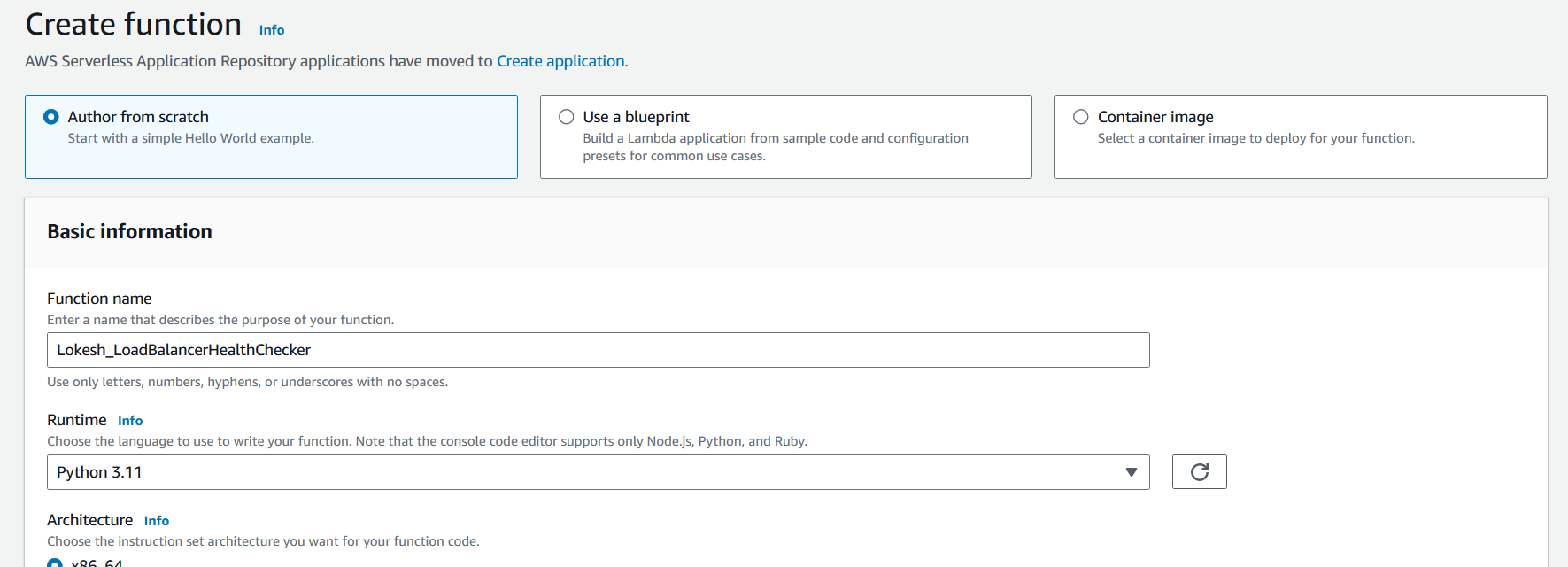
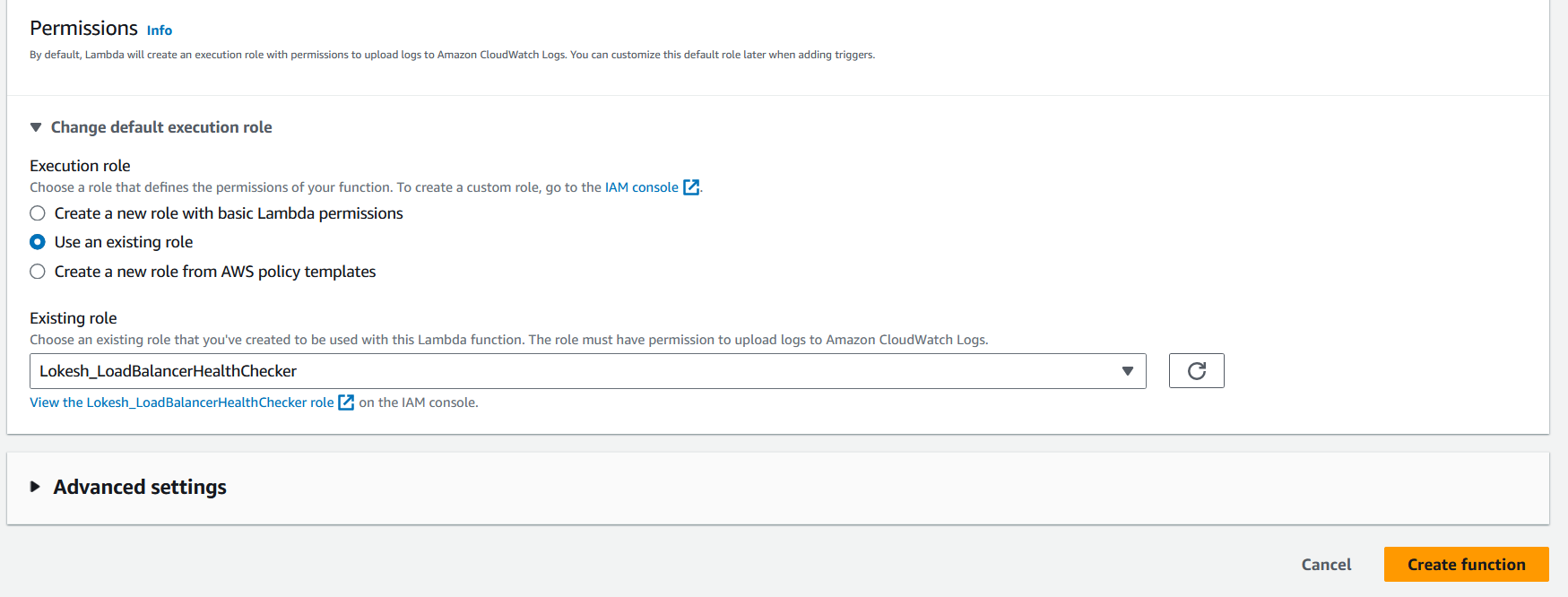
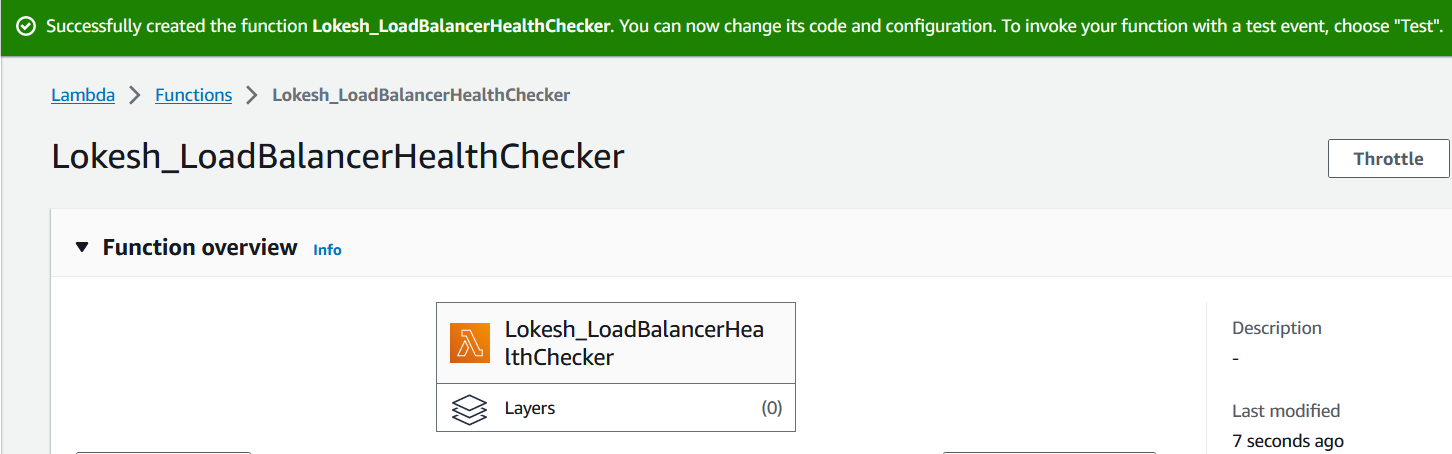
# EC2 Instance creation

* Create 2 EC2 instances with the same security Group and configuration.
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* Scroll bit down till you find Target Groups and create a Target Group as shown below.
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* Next create a Load Balancer by clicking on Application Load Balancer as show below.
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* Leave all the other options as it is and click on create Load Balancer.
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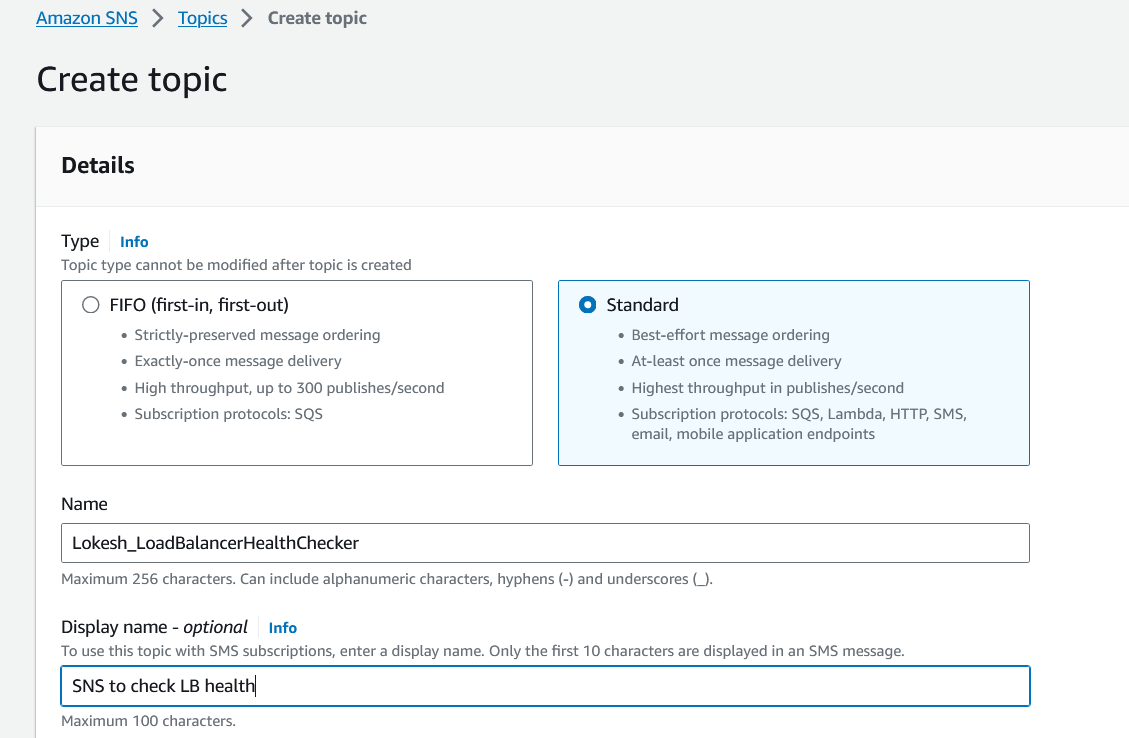
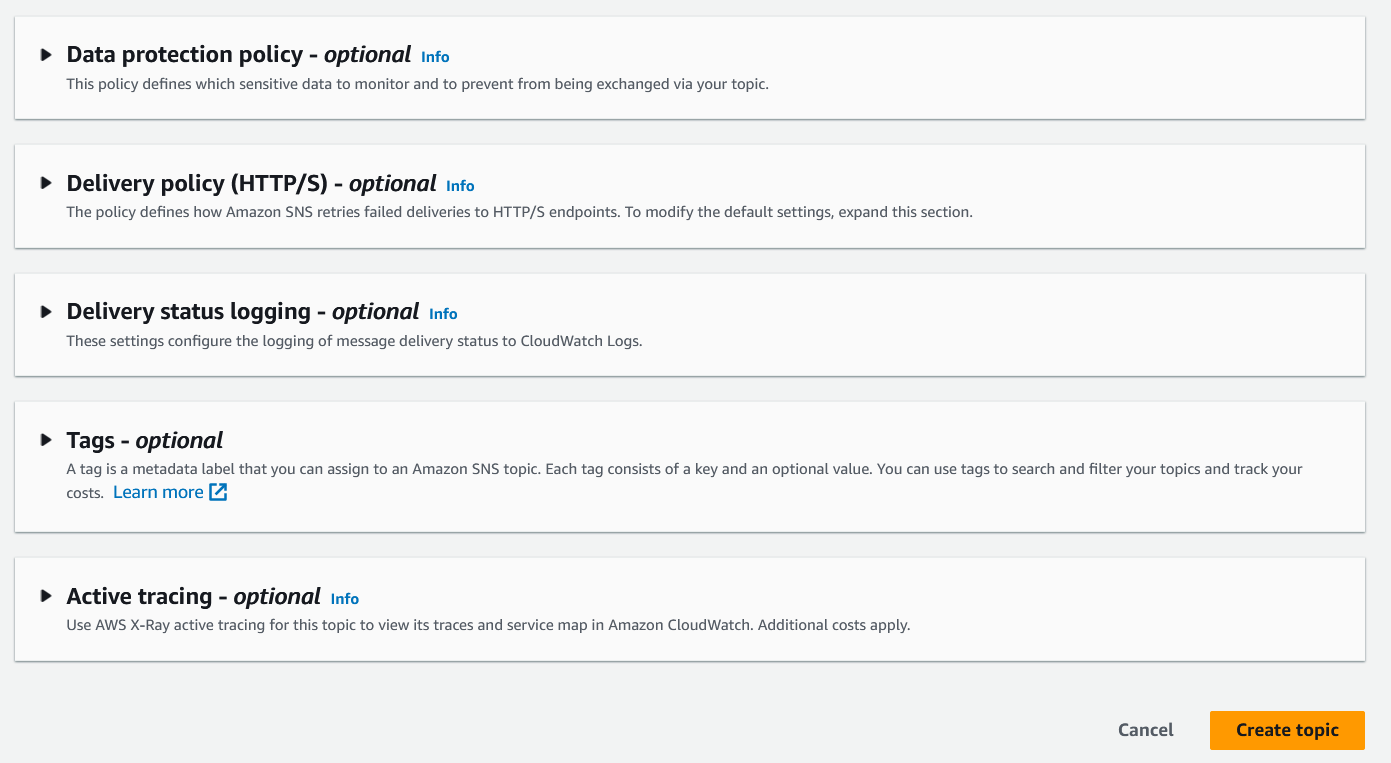
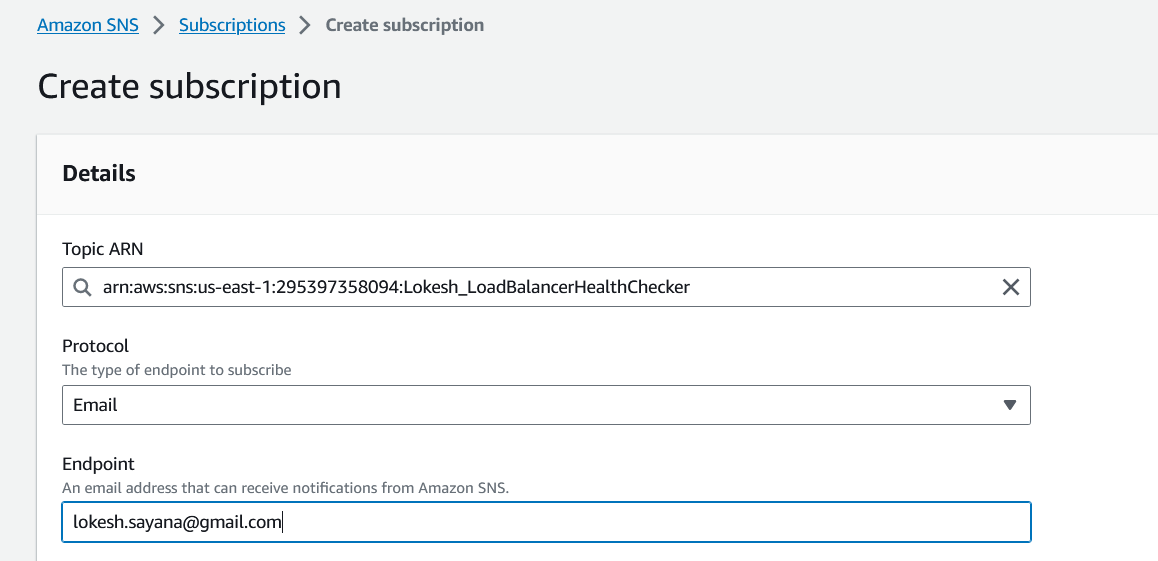
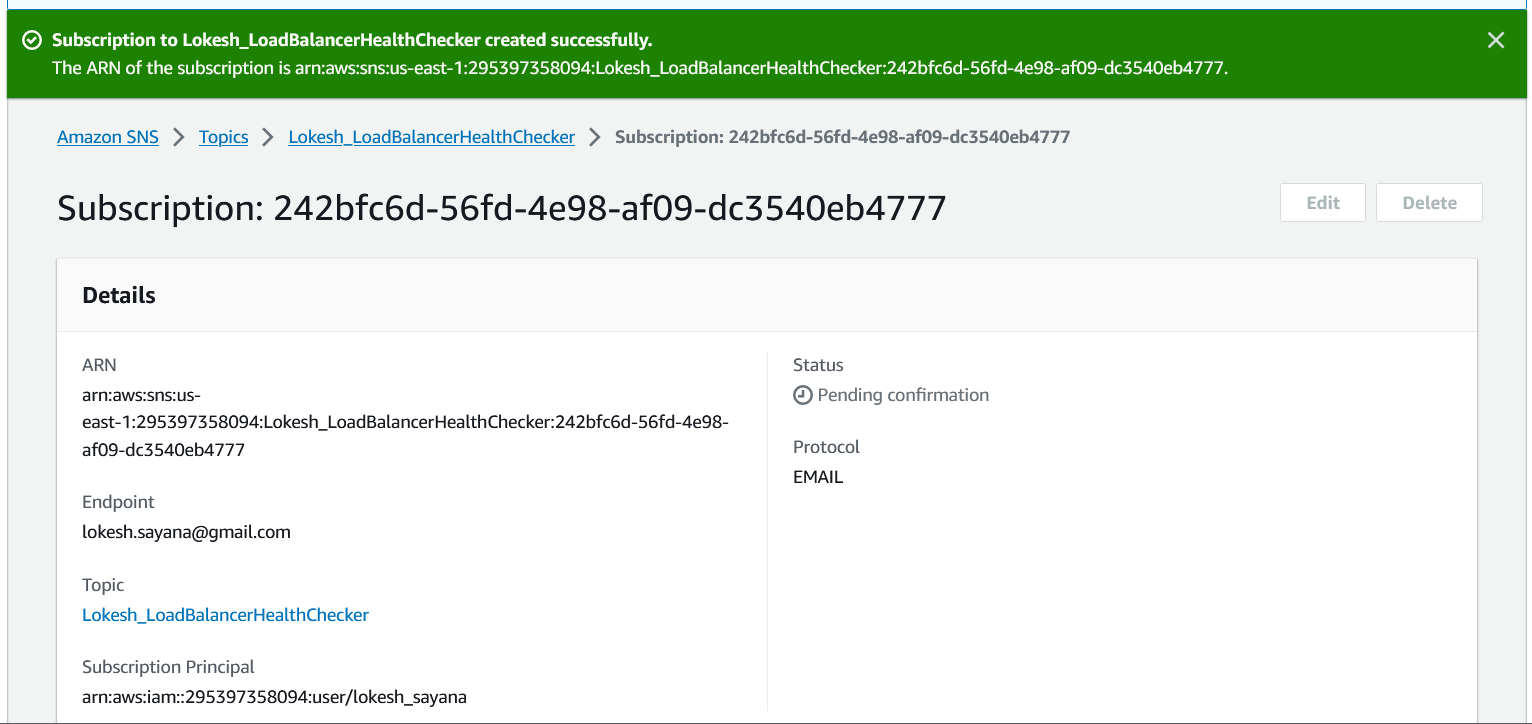
# IAM Role for Lambda Function

* We need to create a role for the Lambda function with all necessary permissions like EC2, S3, ELB, and SNS. The permissions and steps are as follow.
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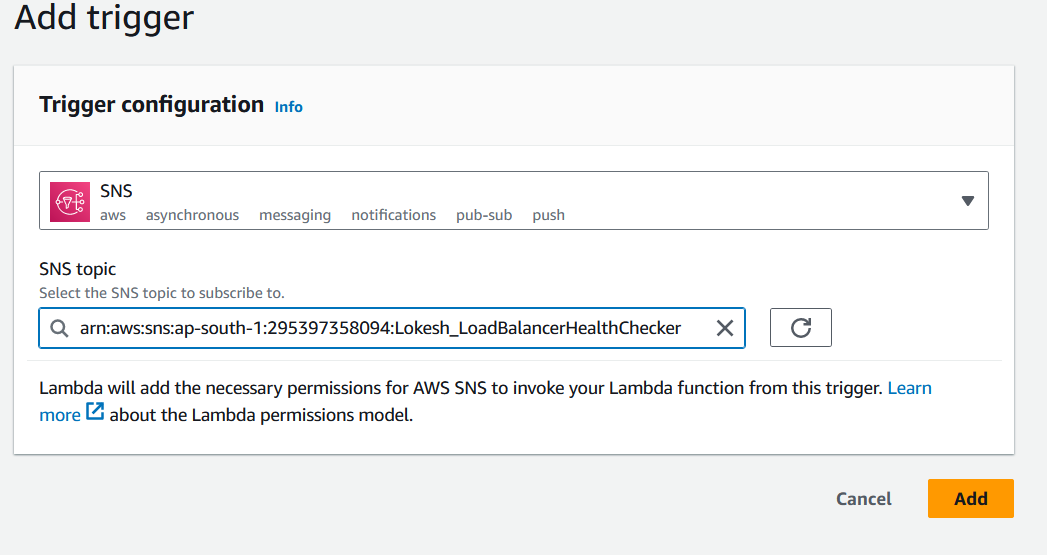
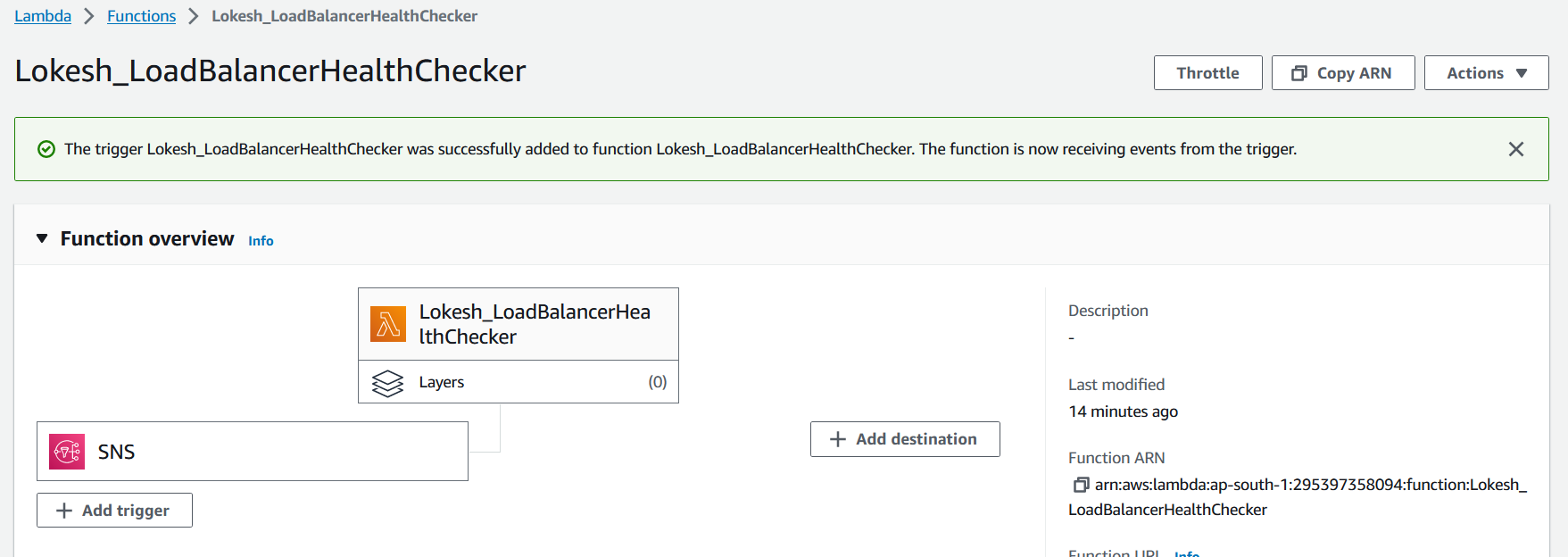
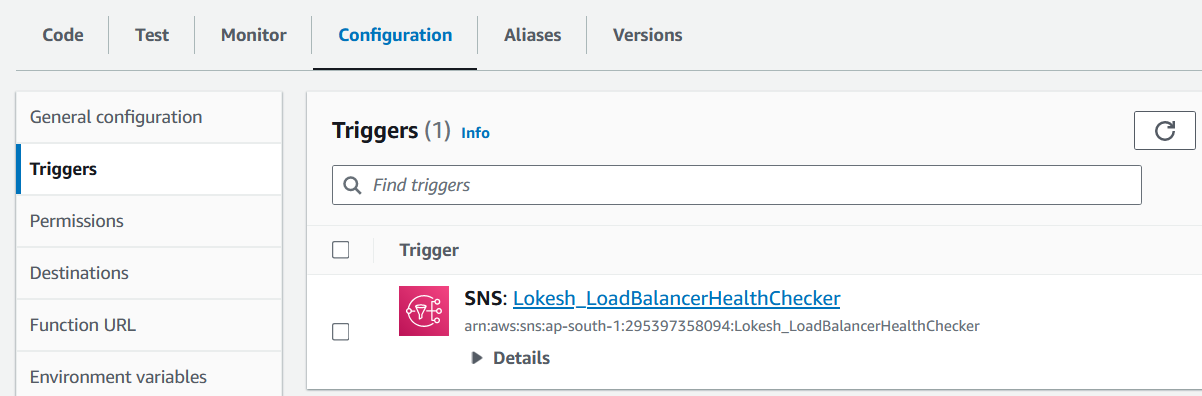
# Creation of Lambda Function

* We need to create a Lambda function with an IAM role which was created earlier. The steps are as follow.
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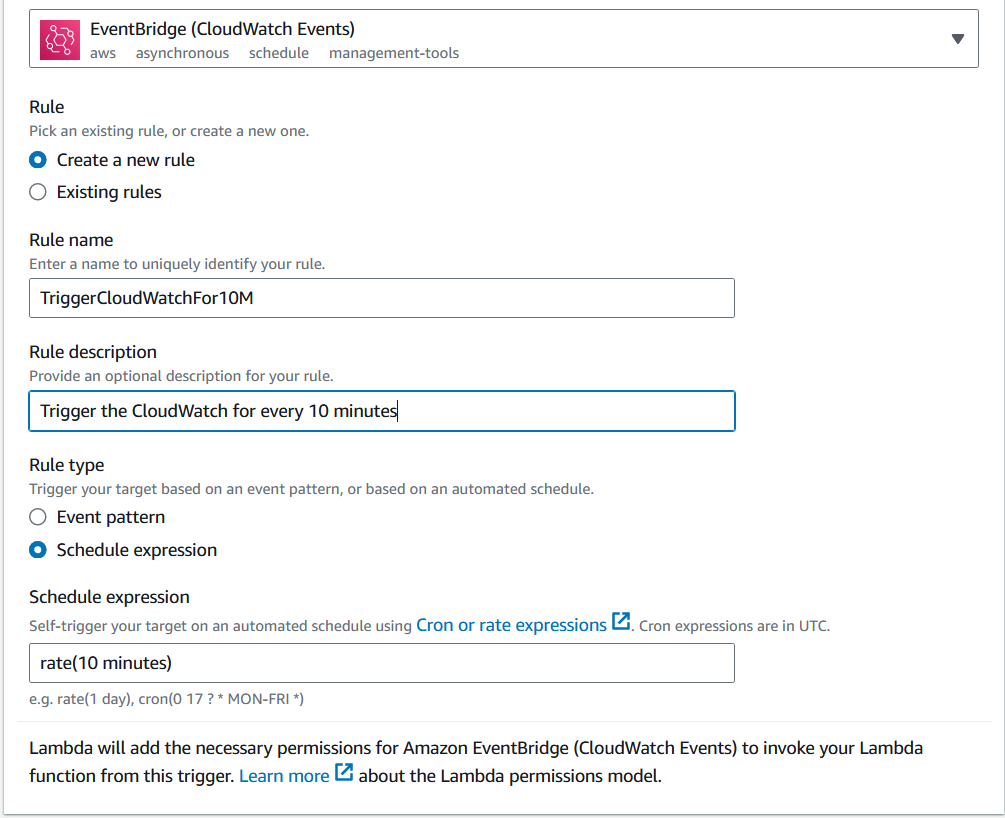
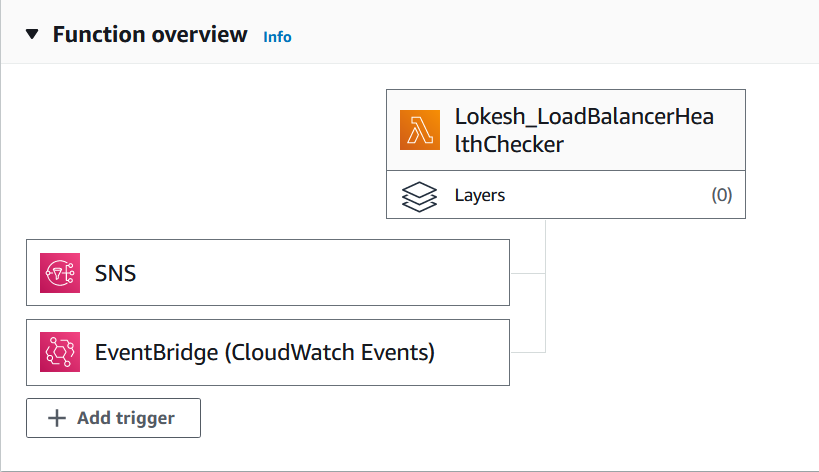
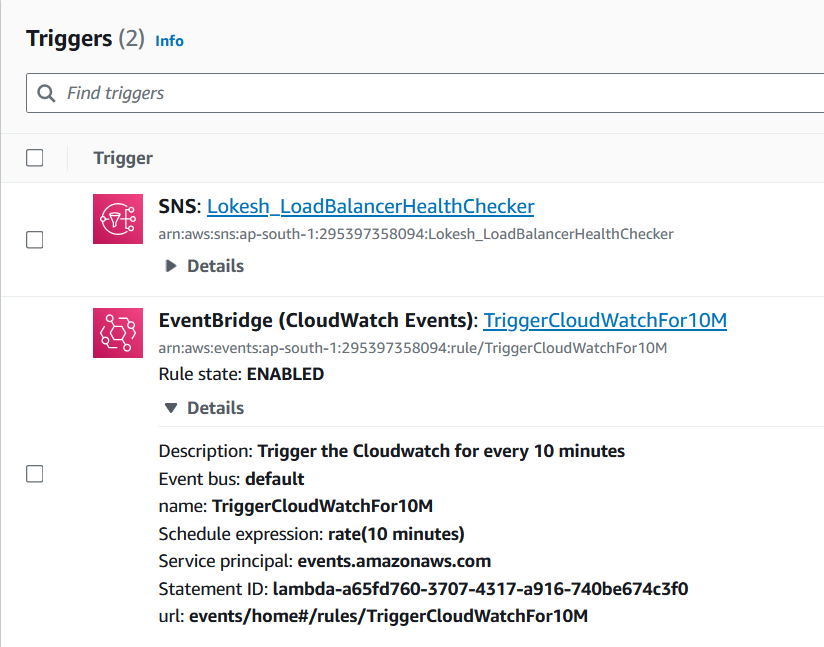
# SNS Creation

* Navigate to SNS from the console and click on Create Topic. Add the details and click on Create Topic.
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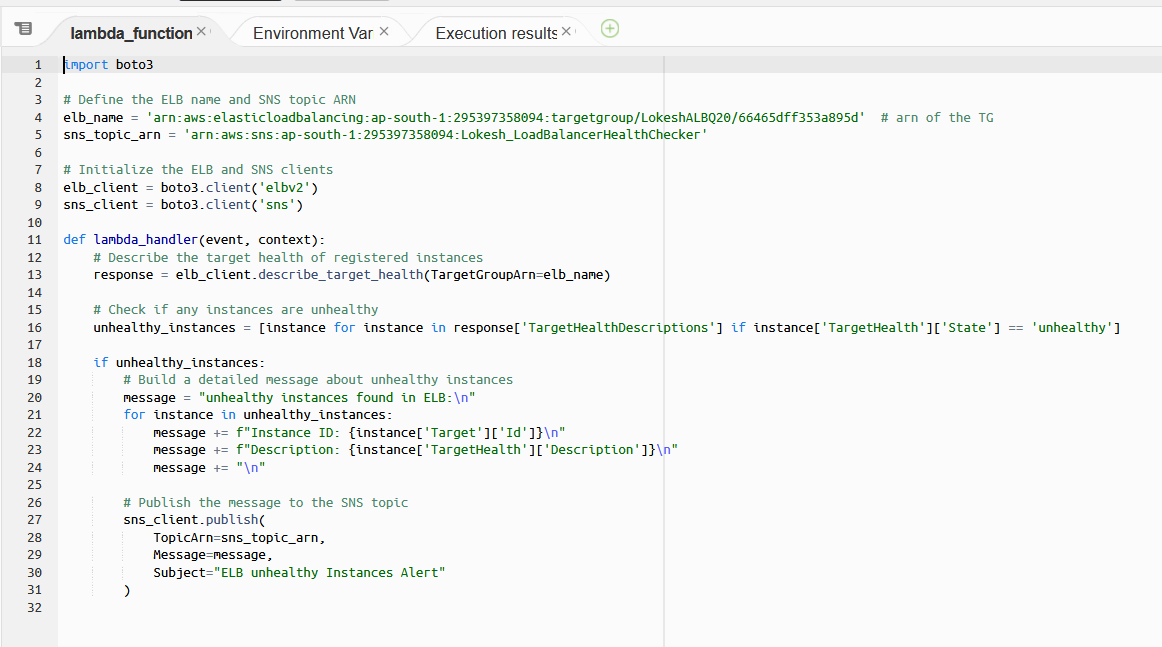
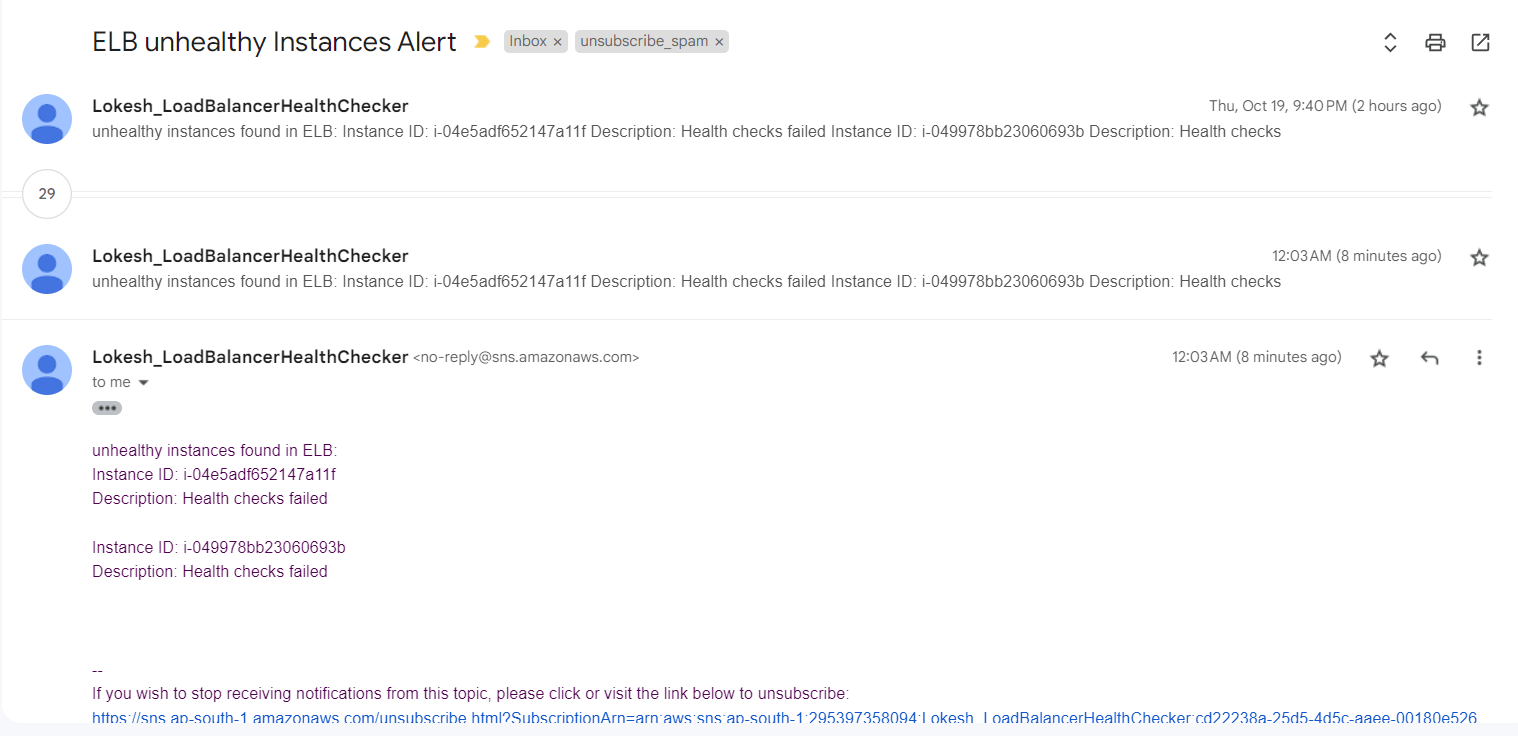
# Adding SNS to Lambda as a Trigger

* Need to click on Add Trigger and select SNS from the drop-down.
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* Once you add the SNS, you will be able to see the same under configuration Triggers.
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# Adding EventBridge (CloudWatch) to Lambda as a Trigger

* Set up a CloudWatch event to trigger this Lambda function every 10 minutes.
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# Testing the Code

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* Successfully Deployed the code and manually invoked without setting 10 minutes timer.
* 
* I’ve configured to trigger the EventBridge for 10 minutes and it is working well.
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